

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P368565

Luminaire Tested: **PMM-SA4C-830-U-SL4-HSS**

Issue Date: 12/2/2019

Report Generated By 670245982

Test Information

Test Method: LM-79-08
Report Number: P368565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-21)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-830-U-SL4-HSS
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15813 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

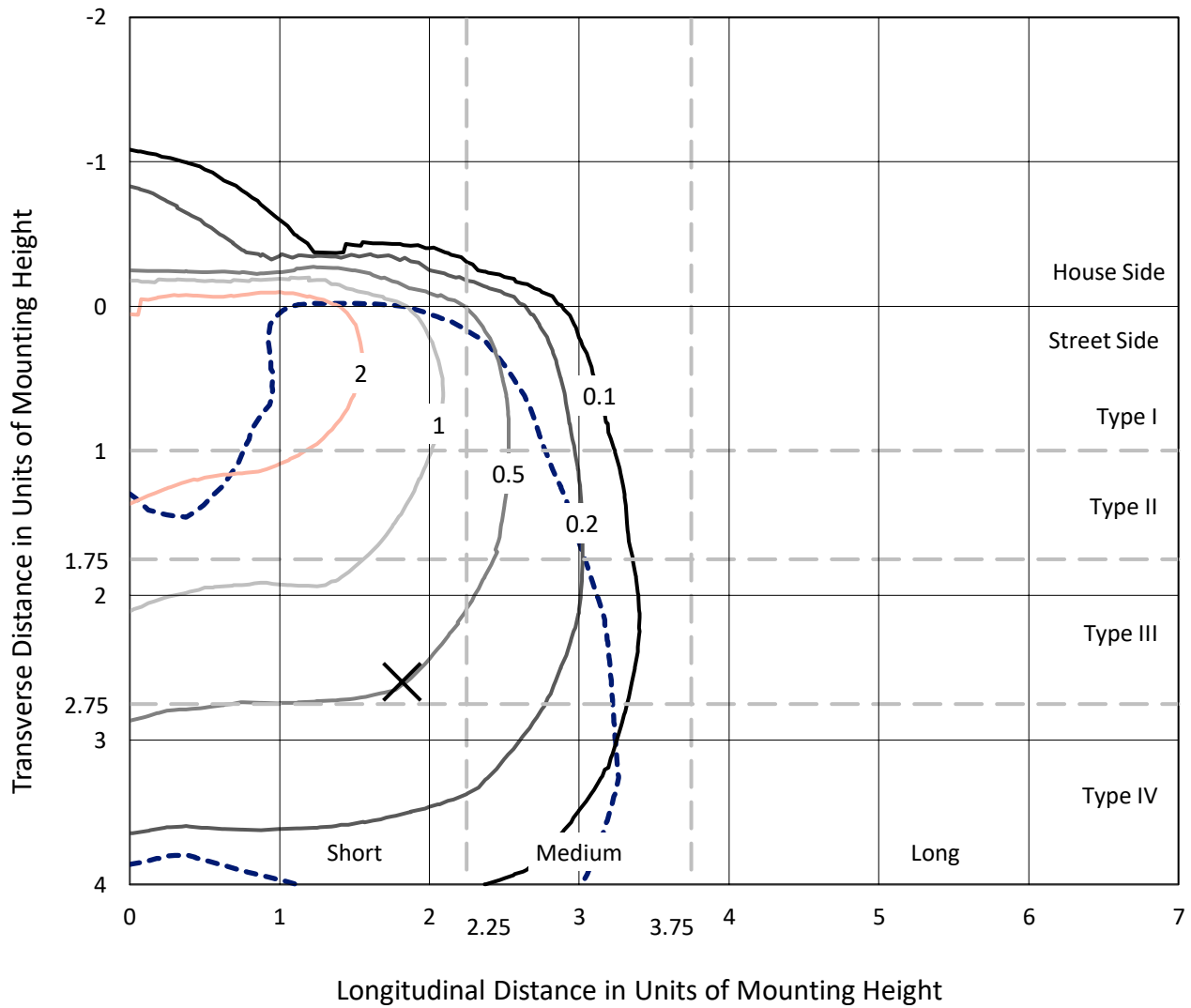
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

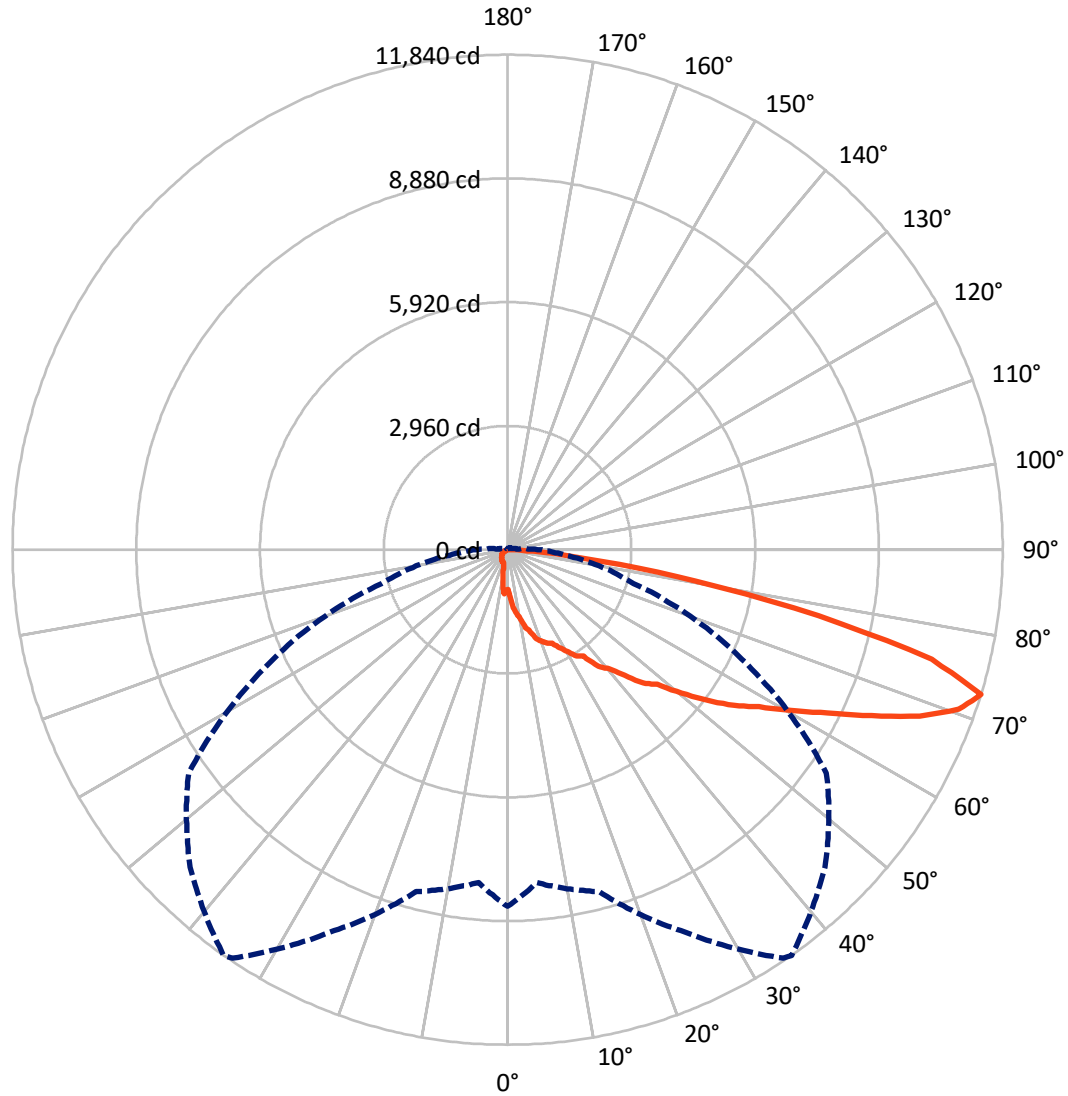
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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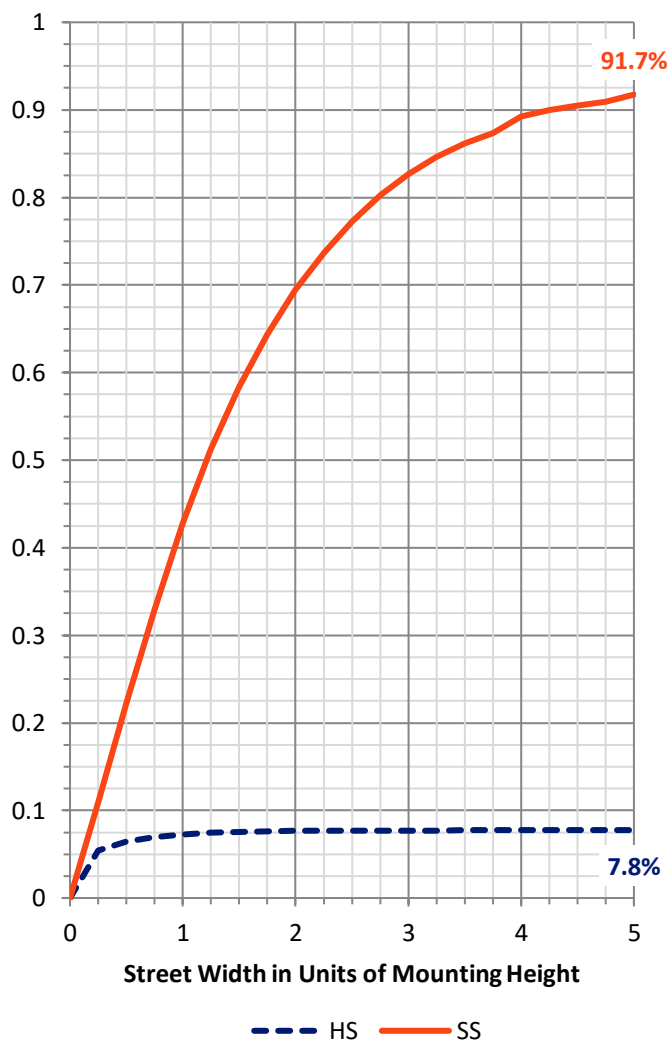
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1233.4 | 0.0 | 1233.4 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 14579.6 | 0.0 | 14579.6 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 15813.0 | 0.0 | 15813.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 120.1 | 0.8 |
| 10°-20° | 404.7 | 2.6 |
| 20°-30° | 737.0 | 4.7 |
| 30°-40° | 1271.2 | 8.0 |
| 40°-50° | 2259.7 | 14.3 |
| 50°-60° | 3372.0 | 21.3 |
| 60°-70° | 4308.1 | 27.2 |
| 70°-80° | 2997.3 | 19.0 |
| 80°-90° | 342.9 | 2.2 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 15813.0 | 100.0 |
| 0°-180° | 15813.0 | 100.0 |

Coefficient of Utilization

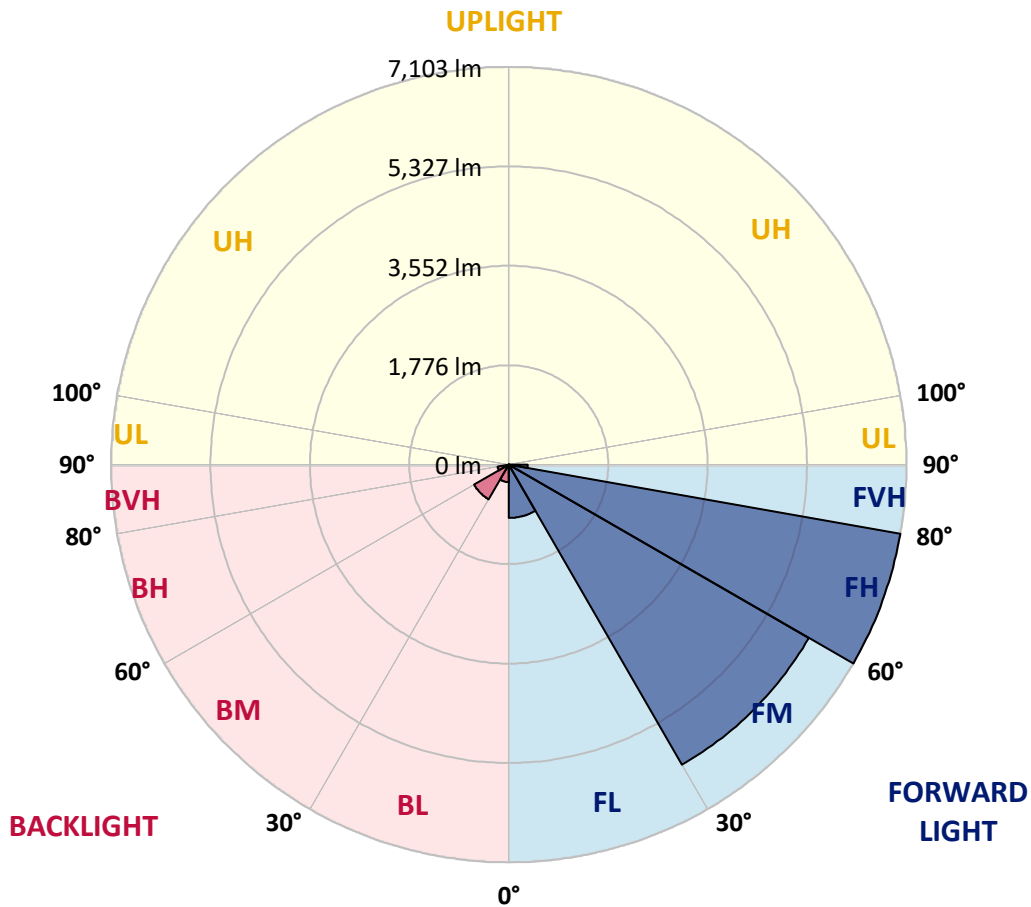


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 951.6 | 6.0 | | | |
| FM (30°-60°) | 6187.7 | 39.1 | | | |
| FH (60°-80°) | 7103.2 | 44.9 | | | G3/7500 |
| FVH (80°-90°) | 337.1 | 2.1 | | | G3/500 |
| BL (0°-30°) | 310.2 | 2.0 | B1/500 | | |
| BM (30°-60°) | 715.2 | 4.5 | B1/1000 | | |
| BH (60°-80°) | 202.2 | 1.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 |
| 2.5° | 1198.7 | 1151.8 | 1075.5 | 1081.1 | 1115.3 | 1122.4 | 1132.8 | 1105.7 | 1081.9 | 1039.8 | 1121.6 |
| 5° | 1535.8 | 1468.2 | 1425.3 | 1411.8 | 1391.9 | 1393.5 | 1345.0 | 1362.5 | 1357.7 | 1388.7 | 1426.1 |
| 7.5° | 1725.8 | 1688.4 | 1634.4 | 1619.2 | 1546.1 | 1538.2 | 1478.5 | 1558.8 | 1566.8 | 1555.7 | 1616.9 |
| 10° | 1801.3 | 1752.0 | 1758.4 | 1701.9 | 1665.4 | 1674.9 | 1684.4 | 1690.8 | 1701.1 | 1711.5 | 1636.7 |
| 12.5° | 1845.8 | 1854.5 | 1941.2 | 1882.4 | 1918.9 | 1918.9 | 1983.3 | 1915.0 | 1917.3 | 1842.6 | 1855.3 |
| 15° | 2046.1 | 2094.6 | 2055.7 | 2054.9 | 2015.1 | 2025.5 | 2100.2 | 2046.1 | 2073.9 | 2051.7 | 1965.8 |
| 17.5° | 2297.3 | 2306.9 | 2232.9 | 2200.3 | 2236.1 | 2236.9 | 2205.1 | 2202.7 | 2105.7 | 2269.5 | 2165.4 |
| 20° | 2377.6 | 2431.7 | 2326.7 | 2199.5 | 2348.2 | 2341.0 | 2338.6 | 2301.3 | 2139.9 | 2367.3 | 2281.4 |
| 22.5° | 2596.2 | 2519.1 | 2447.6 | 2364.1 | 2422.1 | 2422.1 | 2413.4 | 2331.5 | 2268.7 | 2358.5 | 2395.1 |
| 25° | 2664.6 | 2674.1 | 2581.1 | 2554.1 | 2555.7 | 2484.1 | 2477.8 | 2442.8 | 2382.4 | 2535.8 | 2462.7 |
| 27.5° | 2899.9 | 2895.9 | 2672.5 | 2748.0 | 2651.8 | 2652.6 | 2477.0 | 2555.7 | 2566.0 | 2544.5 | 2626.4 |
| 30° | 3131.2 | 3195.6 | 2858.5 | 2953.9 | 2853.0 | 2822.8 | 2651.1 | 2721.0 | 2739.3 | 2714.6 | 2818.0 |
| 32.5° | 3426.1 | 3520.7 | 3193.2 | 3099.4 | 2945.2 | 3031.0 | 2912.6 | 2747.2 | 2837.9 | 3058.1 | 3116.1 |
| 35° | 3738.5 | 3784.6 | 3435.6 | 3304.5 | 3130.4 | 3129.6 | 3125.6 | 3139.1 | 3239.3 | 3487.3 | 3536.6 |
| 37.5° | 4299.7 | 4190.8 | 3875.2 | 3574.7 | 3613.7 | 3527.1 | 3466.6 | 3530.2 | 3634.4 | 4043.0 | 4253.6 |
| 40° | 4612.9 | 4534.2 | 4089.9 | 3911.8 | 3718.6 | 3750.4 | 3914.2 | 3907.0 | 4184.5 | 4612.1 | 4927.7 |
| 42.5° | 4917.4 | 4842.6 | 4405.4 | 4261.6 | 4013.5 | 4100.2 | 4171.7 | 4262.4 | 4830.7 | 5520.7 | 5694.0 |
| 45° | 5188.4 | 4969.0 | 4660.6 | 4666.2 | 4537.4 | 4547.7 | 4674.1 | 4757.6 | 5579.5 | 6287.0 | 6408.6 |
| 47.5° | 5352.2 | 5171.7 | 4876.0 | 4870.5 | 4862.5 | 4814.0 | 5409.4 | 5485.7 | 6176.5 | 7016.7 | 7027.9 |
| 50° | 5582.7 | 5357.0 | 5097.8 | 5102.6 | 5286.2 | 5388.8 | 6099.4 | 6091.5 | 6752.8 | 7625.7 | 7368.9 |
| 52.5° | 5869.7 | 5593.8 | 5308.5 | 5520.7 | 5804.5 | 5971.4 | 6548.5 | 6783.8 | 7372.1 | 8008.0 | 7502.4 |
| 55° | 6236.9 | 5891.9 | 5616.9 | 5888.8 | 6508.0 | 6572.4 | 6988.1 | 7485.0 | 8047.0 | 8398.3 | 7545.4 |
| 57.5° | 6667.8 | 6256.0 | 6033.4 | 6471.4 | 7089.1 | 7090.7 | 7628.0 | 8232.2 | 8461.1 | 8557.3 | 7496.9 |
| 60° | 7132.0 | 6651.9 | 6427.7 | 6822.0 | 7729.8 | 7795.0 | 8339.5 | 8644.7 | 8881.6 | 8637.6 | 7410.2 |
| 62.5° | 7540.6 | 7010.4 | 6836.3 | 7299.7 | 8432.5 | 8586.7 | 8959.5 | 8915.8 | 9185.3 | 8738.5 | 7190.0 |
| 65° | 8027.1 | 7474.6 | 7360.1 | 8044.6 | 9349.8 | 9562.1 | 9655.9 | 9396.7 | 9287.0 | 8660.6 | 6616.9 |
| 67.5° | 8508.8 | 7992.1 | 7988.9 | 8870.5 | 10552.5 | 10625.7 | 10527.1 | 10074.8 | 9168.6 | 7973.8 | 5566.8 |
| 70° | 8848.2 | 8293.4 | 8502.4 | 9775.1 | 11645.6 | 11440.5 | 11025.5 | 10395.1 | 8313.3 | 6111.3 | 3636.8 |
| 72.5° | 8529.5 | 7994.5 | 8465.9 | 10097.1 | 11780.7 | 11839.5 | 10737.0 | 9311.7 | 6176.5 | 3125.6 | 1316.4 |
| 75° | 6481.8 | 6154.3 | 7350.6 | 8957.9 | 10459.5 | 10473.0 | 8961.9 | 6567.6 | 3041.4 | 849.0 | 364.1 |
| 77.5° | 3264.7 | 3160.6 | 4652.7 | 6359.3 | 7631.2 | 7609.0 | 6157.4 | 3518.3 | 978.5 | 282.2 | 183.6 |
| 80° | 1652.6 | 1569.2 | 1980.1 | 3430.9 | 4531.8 | 4565.2 | 3515.9 | 1575.5 | 493.6 | 153.4 | 127.2 |
| 82.5° | 1015.1 | 963.4 | 1083.5 | 1552.5 | 2199.5 | 2252.8 | 1333.9 | 997.6 | 306.0 | 90.6 | 116.1 |
| 85° | 196.3 | 206.7 | 622.4 | 777.4 | 878.4 | 857.7 | 395.1 | 821.2 | 92.2 | 54.1 | 84.3 |
| 87.5° | 0.0 | 3.2 | 143.9 | 253.6 | 254.4 | 225.8 | 89.8 | 182.0 | 12.7 | 15.1 | 10.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: PMM-SA4C-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 | 942.0 |
| 2.5° | 1135.1 | 1123.2 | 1023.9 | 1012.7 | 1015.1 | 998.4 | 992.9 | 957.9 | 949.1 | 1003.2 | 1012.7 |
| 5° | 1410.2 | 1330.7 | 1238.5 | 1205.1 | 1153.4 | 1066.0 | 1053.3 | 1031.0 | 1006.4 | 1015.9 | 1008.8 |
| 7.5° | 1578.7 | 1473.0 | 1374.4 | 1198.7 | 1053.3 | 926.1 | 905.4 | 867.3 | 829.1 | 829.9 | 854.5 |
| 10° | 1605.7 | 1516.7 | 1380.8 | 1166.9 | 1000.8 | 841.8 | 703.5 | 603.3 | 558.0 | 517.5 | 529.4 |
| 12.5° | 1762.3 | 1679.7 | 1429.3 | 1157.4 | 924.5 | 676.5 | 495.2 | 397.5 | 354.5 | 340.2 | 338.6 |
| 15° | 1887.9 | 1822.7 | 1511.9 | 1128.0 | 755.2 | 476.2 | 354.5 | 325.9 | 318.0 | 331.5 | 327.5 |
| 17.5° | 2074.7 | 1957.1 | 1503.2 | 1006.4 | 575.5 | 361.7 | 326.7 | 322.7 | 332.3 | 340.2 | 342.6 |
| 20° | 2156.6 | 1987.3 | 1443.6 | 815.6 | 430.8 | 331.5 | 318.8 | 310.8 | 328.3 | 352.1 | 347.4 |
| 22.5° | 2239.3 | 2039.0 | 1373.6 | 667.7 | 346.6 | 317.2 | 310.0 | 303.7 | 317.2 | 340.2 | 345.8 |
| 25° | 2276.6 | 2121.6 | 1295.7 | 521.5 | 321.9 | 300.5 | 295.7 | 298.1 | 309.2 | 329.9 | 327.5 |
| 27.5° | 2465.0 | 2131.2 | 1147.1 | 411.8 | 311.6 | 288.6 | 288.6 | 294.1 | 294.1 | 321.9 | 319.6 |
| 30° | 2582.7 | 2292.5 | 1026.2 | 346.6 | 299.7 | 271.9 | 281.4 | 283.8 | 279.8 | 310.0 | 312.4 |
| 32.5° | 2789.4 | 2337.1 | 908.6 | 318.0 | 280.6 | 269.5 | 267.9 | 269.5 | 272.7 | 302.1 | 302.9 |
| 35° | 3107.3 | 2556.5 | 748.0 | 306.8 | 271.1 | 257.6 | 246.4 | 255.2 | 263.1 | 284.6 | 288.6 |
| 37.5° | 3729.0 | 2781.4 | 609.7 | 298.1 | 266.3 | 246.4 | 242.5 | 240.9 | 255.2 | 279.8 | 287.8 |
| 40° | 4232.1 | 3179.7 | 496.0 | 290.9 | 256.8 | 240.1 | 229.7 | 230.5 | 243.2 | 261.5 | 273.5 |
| 42.5° | 4944.4 | 3467.4 | 420.5 | 279.8 | 243.2 | 226.6 | 214.6 | 221.8 | 227.3 | 246.4 | 254.4 |
| 45° | 5539.0 | 3690.8 | 370.4 | 272.7 | 229.7 | 213.8 | 204.3 | 212.2 | 206.7 | 216.2 | 227.3 |
| 47.5° | 6012.0 | 3885.6 | 333.1 | 255.2 | 221.0 | 206.7 | 194.8 | 192.4 | 182.8 | 185.2 | 195.5 |
| 50° | 6271.9 | 3853.0 | 302.1 | 237.7 | 209.9 | 199.5 | 182.8 | 166.1 | 153.4 | 152.6 | 159.0 |
| 52.5° | 6364.1 | 3678.9 | 276.6 | 222.6 | 196.3 | 183.6 | 164.5 | 141.5 | 128.8 | 124.8 | 130.4 |
| 55° | 6389.6 | 3428.5 | 253.6 | 205.9 | 183.6 | 163.8 | 143.9 | 119.2 | 105.7 | 99.4 | 104.9 |
| 57.5° | 6306.9 | 3042.9 | 231.3 | 190.0 | 168.5 | 144.7 | 123.2 | 97.8 | 85.1 | 77.1 | 81.9 |
| 60° | 6102.6 | 2553.3 | 211.4 | 170.1 | 152.6 | 128.0 | 104.1 | 78.7 | 65.2 | 58.0 | 60.4 |
| 62.5° | 5650.3 | 2001.6 | 190.0 | 151.8 | 135.9 | 112.1 | 87.4 | 62.0 | 49.3 | 42.9 | 43.7 |
| 65° | 4961.9 | 1492.1 | 165.3 | 134.3 | 120.8 | 97.0 | 70.0 | 47.7 | 37.4 | 31.8 | 31.0 |
| 67.5° | 3953.1 | 1011.1 | 140.7 | 116.1 | 107.3 | 81.9 | 55.6 | 37.4 | 29.4 | 25.4 | 23.8 |
| 70° | 2323.5 | 509.5 | 116.9 | 100.2 | 92.2 | 68.4 | 43.7 | 30.2 | 27.0 | 23.8 | 22.3 |
| 72.5° | 766.3 | 220.2 | 91.4 | 82.7 | 76.3 | 54.8 | 34.2 | 27.8 | 26.2 | 23.1 | 21.5 |
| 75° | 267.1 | 127.2 | 67.6 | 63.6 | 60.4 | 41.3 | 28.6 | 25.4 | 25.4 | 22.3 | 19.9 |
| 77.5° | 174.9 | 98.6 | 50.1 | 46.1 | 45.3 | 30.2 | 24.6 | 23.8 | 22.3 | 18.3 | 15.1 |
| 80° | 145.5 | 55.6 | 35.0 | 32.6 | 31.8 | 19.1 | 19.9 | 17.5 | 13.5 | 7.9 | 3.2 |
| 82.5° | 134.3 | 33.4 | 18.3 | 19.9 | 18.3 | 7.2 | 11.1 | 9.5 | 7.2 | 3.2 | 0.0 |
| 85° | 78.7 | 15.1 | 10.3 | 10.3 | 7.9 | 1.6 | 5.6 | 5.6 | 3.2 | 0.8 | 0.0 |
| 87.5° | 8.7 | 7.2 | 5.6 | 5.6 | 4.0 | 0.0 | 2.4 | 1.6 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)